



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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#4

In re: Application of: Georg Domenig and James Rapier

Serial No.: 09/740,554
Filed: December 20, 2000

Group Art Unit: 3632
Examiner: Unknown

For: VERTICALLY ADJUSTABLE POST HEIGHT ADJUSTMENT MEANS AND
SHELF RETAINING ELEMENT

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OCT 15 2001

Assistant Commissioner for Patents
Washington, DC 20231

TO 3600 MAIL ROOM

PETITION TO MAKE SPECIAL BECAUSE OF ACTUAL INFRINGEMENT
(37 CFR § 1.102 and M.P.E.P. § 708.02)

Applicants hereby petition that this application be advanced out of turn for examination in accordance with the procedures set forth under M.P.E.P. § 708.02.

1. Accompanying material

Accompanying this Petition are statements by the President of the Assignee, Peter Meier, Inc., and Applicant's and Assignee's Attorney alleging that: (1) an infringing product is currently on the market, (2) a rigid comparison of the infringing product with the claims of the above-referenced application indicates that some of the claims are unquestionably infringed, and (3) a careful and thorough search of the prior art has been made. Also included is a copy of each of the claims filed and the references deemed most closely related to the subject matter encompassed by the claims.

2. Fee

Attached is a check for the fee required in accordance with 37 C.F.R. § 1.17(i).

A duplicate of this paper is attached.

Charles Y. Lackey

Attorney for Applicants and Assignee
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Date: 9-28-2001

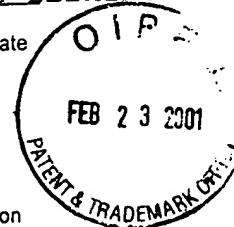


Commissioner of Patents and Trademarks

Applicant/Inventor: Domenig, Georg
Serial No.: _____ Filing Date: _____
Reg. No.: _____ Patent No.: _____
Mark/Title: VERTICALLY ADJUSTABLE POST HEIGHT ADJUSTMENT MEANS AND SHELF RETAINING ELEMENT

Please confirm receipt of the document(s) checked below by applying your date stamp and serial no.:

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<input type="checkbox"/> Section 8 Declaration	<input checked="" type="checkbox"/> Petition to Commissioner
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<input type="checkbox"/> Request for ext. of time	<input type="checkbox"/> Amendment to allege use
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Very truly yours,
Charles Y. Lackey

Statements

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A VERTICALLY ADJUSTABLE POST HEIGHT ADJUSTMENT MEANS AND A SHELF RETAINING ELEMENT

BACKGROUND OF INVENTION

1. Field of the invention. The present invention relates to a rotary shelf construction and assembly and to a shelf-supporting post height adjustment device to secure the post and carried shelves in a pre-selected relationship within the cabinet along with a shelf sustaining element to enable the speedy attachment and detachment of shelves to the post.

2. Description of the prior art. It has been common practice to provide corner kitchen cabinet shelves of a rotatable or "Lazy Susan" type. Such shelves are desirable because, without them, much cabinet space in the corner either above or below the kitchen counter is wasted due to the inaccessibility of items well back in the corner.

One of the problems encountered with such a structure is the variance or non-uniform distances between the top and bottom of the cabinet thus requiring some accommodation for the length of the post in order for the post and shelves to fit and function properly within the cabinet.

U.S. Patent No. 4,587,908 discloses a vertically adjustable post assembly wherein an upper post is telescoped into the upper end portion of a lower post and adjusted vertically relative thereto. Vertical adjustment is provided by an end cap attached to the upper end of the lower post by a set screw. The end cap is formed with a V-shaped key which fits into a formed channel in the upper post to prevent the upper post from rotating relative to the lower post while permitting

vertical adjustment of the upper post. While the reference discloses a workable combination, it does require an end cap to slide over the upper end of the lower post thus allowing a key formed on the upper bracket to fit within the formed channel in the upper post, a combination of elements obviously more expensive than desired.

U.S. Patent No. 4,572,595 includes an assembly having a sleeve member with first and second end portions and defining a coaxial hole therethrough. The hole slidably receives the upper end portion of the rotating support shaft, and a set screw adjustably secures the sleeve member to the rotating support shaft such that it rotates with the shaft. This fitting prevents rotational slippage, however it does not provide vertical adjustability.

U.S. Patent No. 4,688,686 provides for post vertical adjustment through a height adjustment mechanism wherein a diamond tooth knurled cylindrical segment is rotated to threadably raise and lower the post to the desired position. A locking screw secures the vertically positioned elements in a fixed condition.

U.S. Patent No. 4,433,885 provides vertical adjustment by means of a wedge movable horizontally against a bearing support to provide vertical adjustability.

All of these references disclose workable vertically adjustable features, however some wear excessively after frequent use. All of these adjustments are somewhat troublesome, time consuming, relatively expensive and oftentimes laborious.

In addition, some of the prior art references relating to adjusting the height of a shelf assembly require the use of special tools, and frequently the

adjusting mechanisms were not easily accessible. The shelves are conventionally secured to the post in corner units like those described by the insertion of pins and other post securing attachments to permit movement of the shelf upwardly and downwardly along the post. Usually it is necessary to utilize several elements in combination to accomplish this securement thus making shelf securement rather expensive and time consuming.

Shelf construction for Lazy Susan assemblies have traditionally included the use of several separate components that were combined to form the finished shelf. Additional and separate structure was also needed to affix the shelf to the supporting post. A collar was often positioned under the shelf with a pin extending through it to engage the post and frictionally hold the collar in a stationary position and thereby support the shelf during use. Shelves made of multiple components are expensive and involve considerable time and adjustment when installed. For this reason there is a need to improve shelf structure and reduce the time normally involved in shelf installation and adjustment.

OBJECTIVES AND SUMMARY OF INVENTION

Accordingly, it is an object of the present invention to provide a rotary shelf assembly wherein the height of the shelf assembly can be easily adjusted.

A further objective of the invention is to provide a novel adjustable mechanism for adjusting the vertical height of the support means of the rotary shelf assembly of the present invention.

Yet another object of the invention is to provide a rotary shelf assembly of the type described for use in corner areas of kitchen cabinets primarily known as "Lazy Susans" wherein the height of the shelf assembly can be adjusted to fit the varying space experienced in current construction.

Yet still another object of the present invention is to provide a rotary shelf assembly for use in corner areas of kitchen cabinets than can be expeditiously and efficiently installed within the cabinet frame without the tedious assembly of a combination of components.

A further objective is to provide a uniquely formed one piece shelf with a post-securing shelf section which enables securement of a shelf to the post with a single pin.

The present invention is a post height adjustment mechanism for adjusting the height of a rotary shelf assembly and enabling the speedy and efficient installation of the assembly within the cabinet frame. The adjustment mechanism includes a first tubular post and a second tubular post sized to be telescopically received within the first or top end of the first tubular post and having an elongated recess extending longitudinally along the axis of the second tubular post. The first tubular post has an opening to receive a mating screw extendable through a wall of the first post and securably extending into the elongated recess to attach to a casting member within the second tubular post to the first tubular post at a pre-selected location thus configuring the joined posts to the precise distance between the first and second mounting brackets and avoiding rotational shelf/post slippage. The advantages associated with this

configuration include the ability to detach the first tubular post from the second tubular post and consolidate the shelf assembly for shipping.

This invention also includes a uniquely formed one piece shelf with a post-securing shelf section which enables securement of a shelf to the post with a single pin. The post-securing shelf section is a hub-like configuration accommodating the post and containing a molded recess to cooperatively receive a pin that has been passed through the post and extends outwardly therefrom on both sides.

The invention also includes a flexible shelf securing element partially encircling the post when installed and adapted to slide within the post opening of each shelf and further secure the engaged shelf at a pre-selected location along the post.

Thus there has been outlined the more important features of the invention in order that the detailed description that follows may be better understood and in order that the present contribution to the art may be better appreciated. There are, of course, additional features of the invention that will be described hereinafter and which will form the subject matter of the claims appended hereto. In that respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its arrangement of the components set forth in the following description and illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways.

It is also to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting

in any respect. Those skilled in the art will appreciate that the concept upon which this disclosure is based may readily be utilized as a basis for designing other structures, methods and systems for carrying out the several purposes of this development. It is important that the claims be regarded as including such equivalent methods and products resulting therefrom that do not depart from the spirit and scope of the present invention. The application is neither intended to define the invention of the application, which is measured by its claims, nor to limit its scope in any way.

Thus, the objectives of the invention set forth above, along with the various features of novelty which characterize the invention, are noted with particularity in the claims annexed to and forming a part of this disclosure. For a better understanding of the invention, its operating advantages and the specific results obtained by its use, reference should be made to the following detailed specification taken in conjunction with the accompanying drawings wherein like characters of reference designate like parts throughout the several views.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a side elevational view of the rotational shelf apparatus embodying a part of the present invention positioned within a cabinet frame;

Fig. 2 is a perspective and enlarged view of the upper end of a tubular post formed from a telescopically insertable second tubular member having an elongated recess capable of receiving a screw to secure the posts in a fixed relationship;

Fig. 3 is a perspective view of the joined posts shown in Fig. 2;

Fig. 4 is a perspective view of the first and second joinable posts in a separated condition;

Fig. 5 is a side elevational cross sectional view of the casting shown in Fig.7 taken along the line 5-5;

Fig. 6 is a side elevational cross sectional view of the casting shown in Fig.7 taken along the line 6-6;

Fig. 7 is a top plan view of the casting utilized in the securement of the first post to the second joinable post;

Fig. 8 is a side elevational sectional view of the casting shown in Fig. 7;

Fig. 9 is a top sectional view of the joined first and second posts being held in a fixed relationship with each other by the casting of Fig. 7 and an enabling screw;

Fig. 10 is a side elevational, sectional and fragmentary view of the first and second joined posts and the casting used to maintain the posts in a fixed position with respect to each other;

Fig. 11 is perspective view of the new shelf construction displaying for the most part the underside of the shelf;

Fig. 12 is a perspective view of the new shelf construction of the present invention showing the top of the shelf;

Fig. 13 is a fragmentary, enlarged and perspective view of the new shelf underside construction of the present invention primarily focusing on the post-shelf section which enables securement of a shelf to the post with a single pin;

Fig. 14 is a fragmentary, enlarged and perspective view of the post-securing shelf underside section of the new shelf construction of the present

invention displaying a post aperture through which may be inserted a pin to secure the shelf to the post;

Fig. 15 is a spring clip effective to limit any movement of the shelves along the post when they are collapsed against each other for shipment or other movement, the spring being in the engaged position to limit such movement;

Fig. 16 is a view similar to that shown in Fig. 21 with the spring being disengaged to free the shelves for movement;

Fig. 17 is perspective view of the rolled pin formed of flat stock; and

Fig. 18 is an end elevational view of the rolled pin shown in pin 23.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

A rotational shelf assembly incorporating various features of the present invention is illustrated generally at 10 in Fig. 1. Shelf assembly 10 is designed to be installed in a cabinet 12 having installation surfaces comprising a ceiling surface or top 14 and a floor surface or bottom 16. However, it will be appreciated that the use of the assembly 10 is not confined to cabinet interiors and can be adapted for mounting in various storage areas having the necessary installation surfaces. Moreover, it will be understood that while assembly 10 has been titled a rotational shelf assembly, the term "shelf" as used herein encompasses various support structures for supporting items to be stored.

As shown in Fig. 1, assembly 10 comprises a support assembly 18 for rotatably mounting adjustable shelves 20. Support assembly 18 includes a first rotational support post 22 having upper and lower end portions 24, 26, the lower end portion 26 engagably supported by mounting bracket 30 and the upper part

of post 22 being supported by upper bracket 31 as shown. A plurality of shelves 20 are fixedly secured to post 22 to be rotated in unison therewith.

Adjustment features, particularly vertical adjustment features, are required for installations of this nature because of the varying distances between cabinet top 14 and cabinet bottom 16. Variations in distances may be several inches depending upon the cabinetry involved, and it is necessary to provide adjustment devices to allow for these variations and yet maintain the post 22 and attached shelves 20 in a stationary and stable condition. It is also desirable to utilize a mechanism for installing the shelves and the supporting posts within the cabinet frame that can be easily installed and efficiently adjusted or removed for shipment without the use of a combination of elements and tedious installation procedures.

The present invention utilizes a post height adjustment assembly or device which includes a second tubular post 34 telescopically received within a first tubular post 22 as shown in Fig. 1. Second post 34 is a tubular member having an elongated recess 36 extending longitudinally along the second tubular post axis. An aperture 38 (Fig. 3) cooperatively receives a mating screw 40 extending through wall 42 of first post 22 into elongated recess 36 in a fixedly securable manner so that second post 34 and first post 22 are secured at a pre-selected location to span the distance between top interior 14 and bottom 16 and insure that there is no rotational slippage.

Because elongated recess 36 extends for a distance of several inches, it allows second tubular post 34 to be moved upwardly or downwardly within first tubular post 22 to an exact pre-determined location suitable to fit reliably within

a given cabinet interior dimension and to be thereafter secured by screw 40 to maintain that position. Recess 36 can extend from somewhere within the mid portion of post 34 all the way to one end 44 as shown in Fig. 4. Alternatively, the recess might extend end-to-end of post 34 if that were desired.

It has been found most convenient to have the elongated recess length to run from approximately four to approximately eight inches. It has also been found to be desirable to have the depth of the elongated recess to run from approximately one-eighth inch to approximately one-half inch.

The simplicity of the present adjustment means is readily appreciated by noting that recess 36 can be produced by exerting pressure along the longitudinal axis of post 34 to form a depression. Aperture 38 in post 22 can be anywhere along the surface of post 22 so long as it is positioned radially of that post.

Screw 40, may be inserted in a threaded aperture 39 within a casting 39a and moved radially toward the longitudinal axis of post 22 where it eventually engages the lower curved portion 41 of recess 36 where it tightens. The forward end 43 of screw 40 does not engage the bottom of recess 36, the complete tightening of screw 40 taking place within lower curved portion 41.

Casting 39a is formed as shown in Figs. 5-9 wherein a substantially solid piece of preferably metallic material is formed with an arcuate surface to cooperatively abut with the interior surface of tubular member 22. Bradable extensions 43a are formed on the arcuate surface to coincide with apertures provided in tubular member 22. These bradable members can then be spread by a special tool to secure the casing against the interior of vertical post 22.

Threaded aperture 39 of the casting cooperatively receives screw 40 reached through a larger opening in vertical post 22 and is tightened into the lower curved surface portion 41 of recess 36 as previously explained.

Adjusting the device of the present invention is simple and efficient, element 40 being readily accessible through the open door of the cabinet. Since only movement of post 34 with respect to post 32 is required and tightening of screw 40 completes the securement, little difficulty is experienced in effecting such adjustment. The simple connection of post 34 with post 32 provides an efficient installation of the totally formed post and supported shelves within the cabinet frame.

The present invention also includes a uniquely formed one piece shelf with a post-securing shelf section which enables the securement of the shelf with a single pin. The top and bottom of the shelf is shown in Figs. 12 and 11 respectively. The shelf is molded of a plastic or other suitable material and provided with a plurality of strengthening ribs 45 that extend radially of the circularly configured shelf from the post-securing shelf section 62. Circular supporting ribs 47 provide additional strength.

Post-securing shelf section 62 is made up of a circular hub 48 (Fig. 13) which houses within its formed interior 58 a plurality of radially extending ribs 64 emanating from a post encircling sleeve 66. Two pin-receiving indents 68 cooperatively open into sleeve 66 so that a pin inserted through a post 58 (Fig. 14) will nest within indents 68 and be within the interior of hub 48.

Thus, the one piece shelf 20 can be positioned over post 58 as shown in Fig. 14 and sustained at a predetermined location by the insertion of a pin 60

through an aperture 62 in post 58 with the extending ends of the pin cooperatively received by indents 68 to secure the shelf at a precise location on post 58.

When rotary shelf assemblies like those disclosed herein are shipped, they are usually collapsed to the extent possible in order to make shipping sizes more efficient by occupying less three dimensional space and prevent shelf damage. When the assemblies are reduced in size, the shelves are usually brought together still connected with the post and are secured so that they do not move during shipment. Securement of the shelves against movement is sometimes complicated and in most instances expensive.

In the present rotary shelf assembly, a securement clip has been developed that is simple in construction, easy to install and reliable in operation. An embodiment of the clip is shown in Figs. 15 and 16 wherein a continuous metallic clip shown generally as 78 fully encircles and locks to post 34 at its terminal ends 80, 82, each end engaging cooperative apertures 84, 86. Clip 78 is formed with a bias to urge tips 80, 82 toward each other and cause them to become embedded within apertures 84, 86 in a secured manner. Clip 78 is effective in limiting any movement of the shelves along the post during shipment.

Fig. 16 illustrates the positioning of clip 78 as it is urged against post 34 and into apertures 82, 84 and Fig. 21 shows clip 78 in the final engaged and shelf-securing position. For ease in installation, a slightly offset end extension 88 is formed on tip 82 so that it can be initially engaged or seated in aperture 86 when clip 78 is thereafter urged forwardly until tip 80 engages aperture 84.

Another alternative component for insuring the secure positioning of shelf 20 against post 58 is a rolled pin 90 as shown in Figs. 17 and 18. Pin 90 is formed from a sheet of preferably metallic material in flat form which is thereafter rolled to form a cylindrical and somewhat flexible pin. The springiness of pin 90 permits it to be slightly compressed when placed in aperture 72 and indents 74 so that upon release it springs outwardly against the surfaces of those elements and resists any movement of shelf 20 with respect to post 58.

From the proceeding description, it can be seen that an adjustment device for a cabinet assembly, a novel shelf construction and a shelf securing element have been provided that will meet all of the advantages of prior art devices and offer additional advantages not heretofore achievable. With respect to the foregoing invention, the optimum dimensional relationship to the parts of the invention including variations in size, materials, shape, form, function, and manner of operation, use and assembly are deemed readily apparent to those skilled in the art, and all equivalent relationships illustrated in the drawings and described in the specification are intended to be encompassed herein.

The foregoing is considered as illustrative only of the principles of the invention. Numerous modifications and changes will readily occur to those skilled in the art, and it is not desired to limit the invention to the exact construction and operation shown and described. All suitable modification and equivalents that fall within the scope of the appended claims are deemed within the present inventive concept.

What is claimed is:

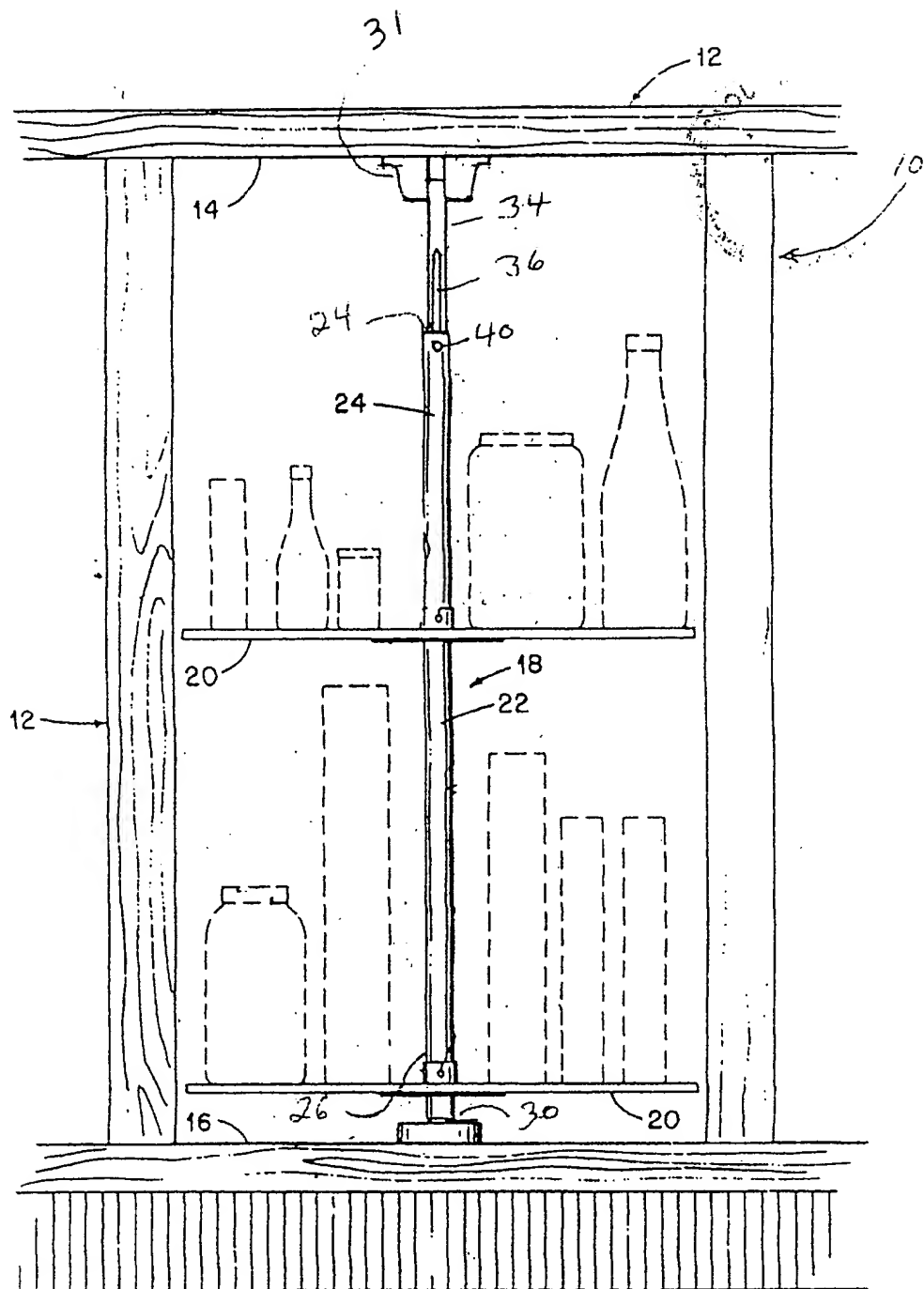
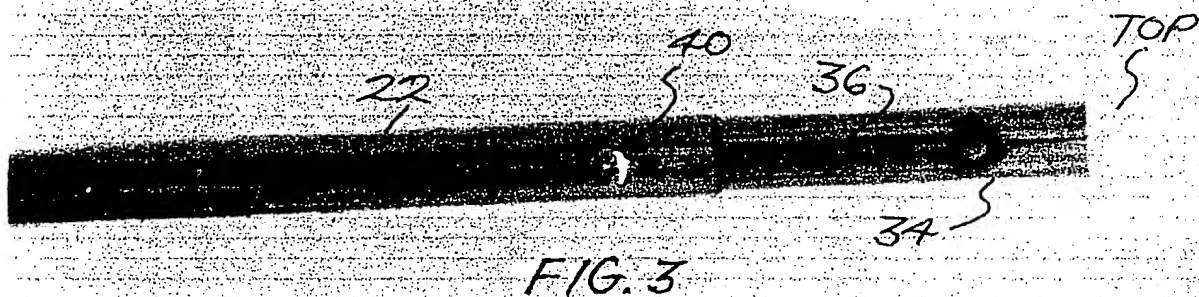
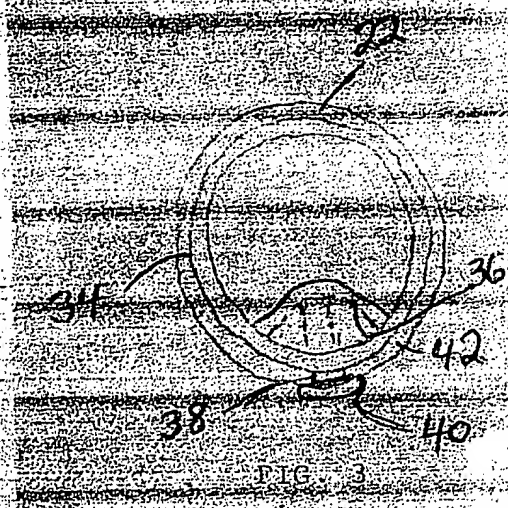
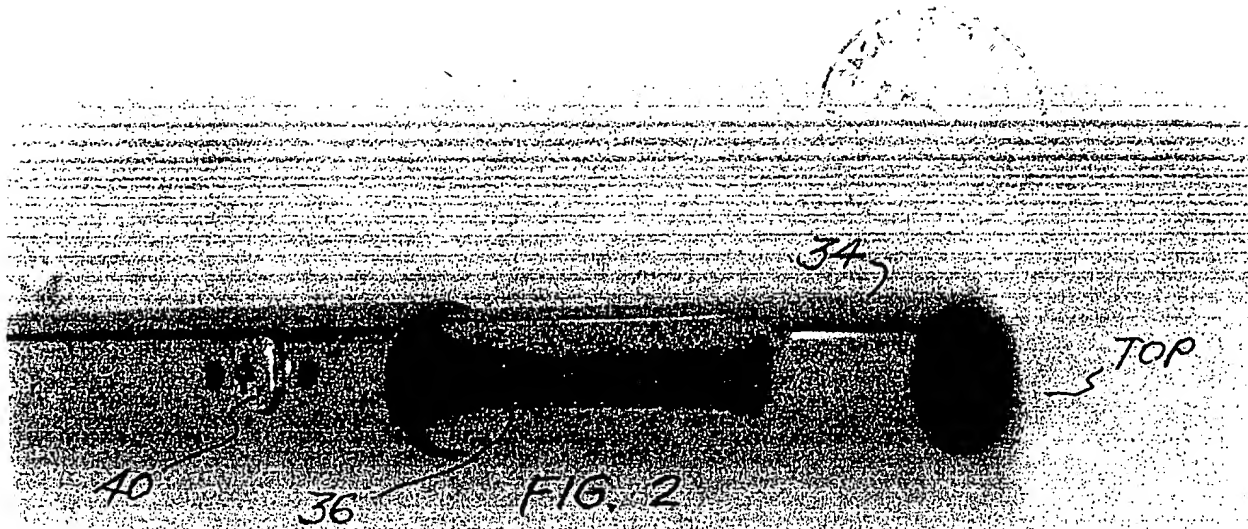
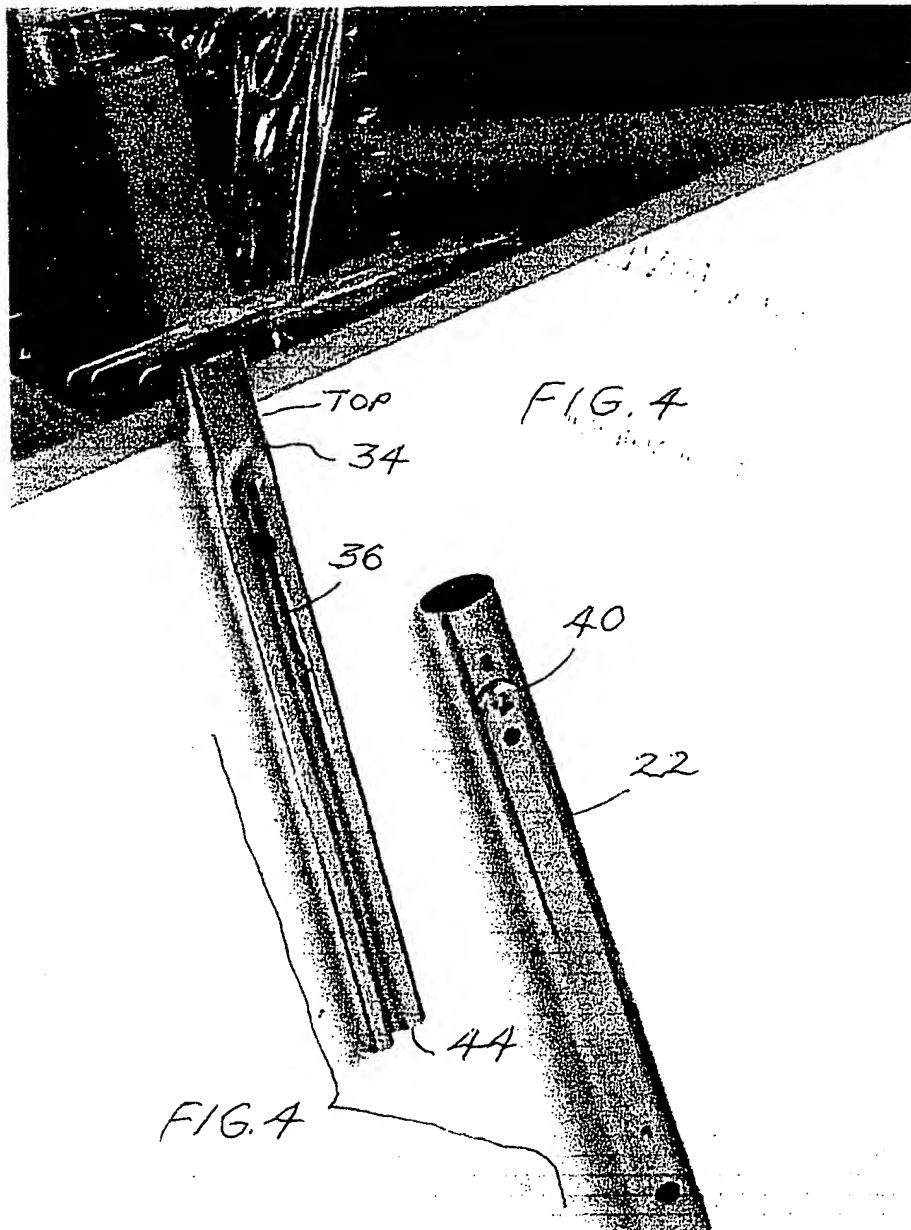


Fig. 1





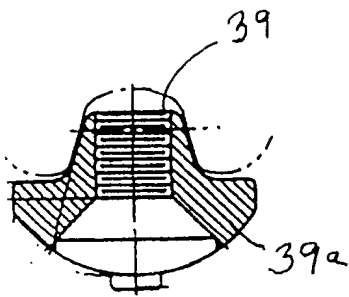


FIG. 5

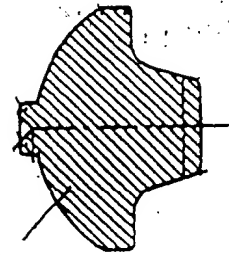


FIG. 6

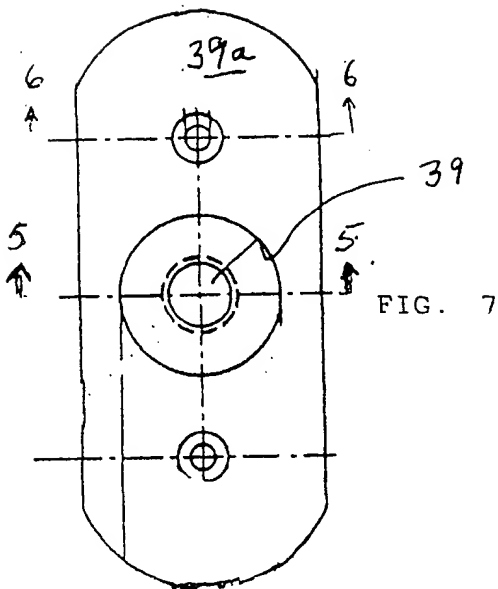


FIG. 7

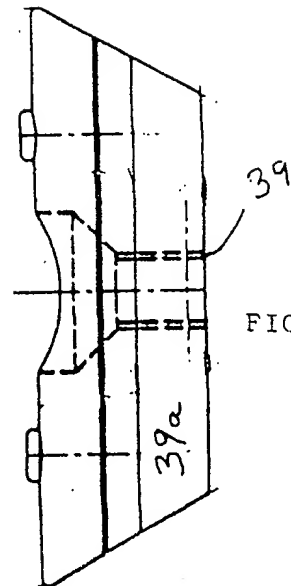


FIG. 8

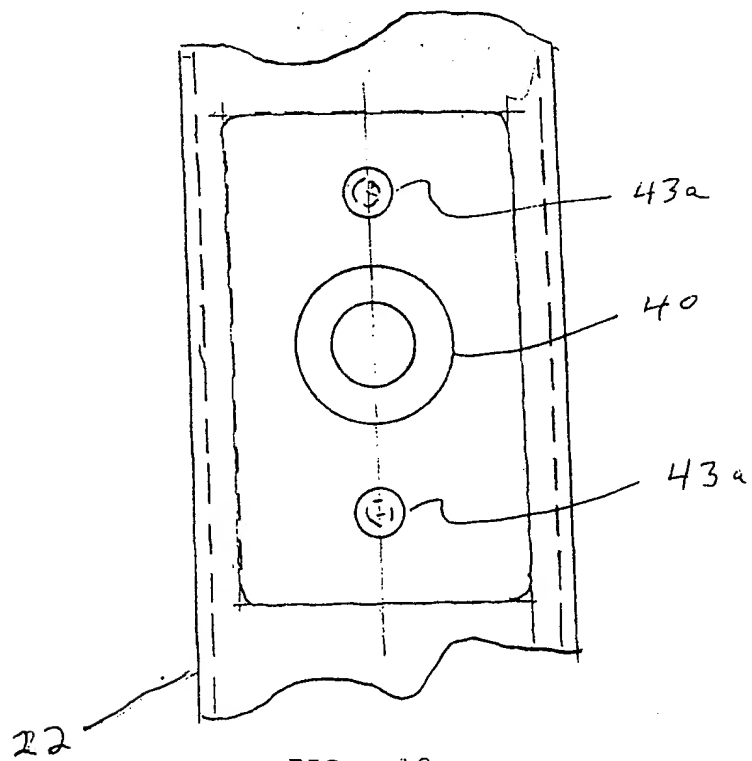
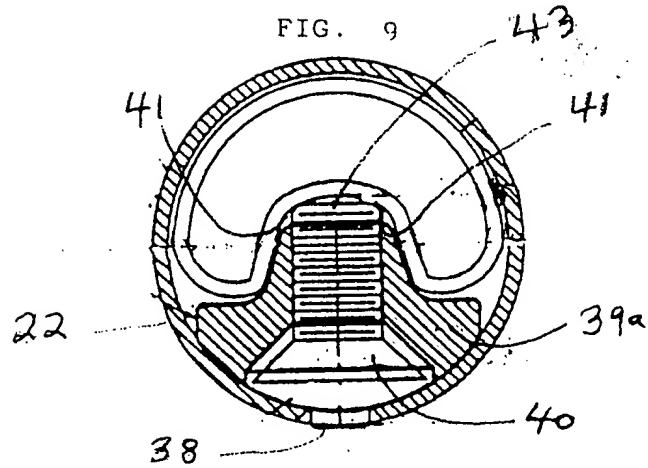
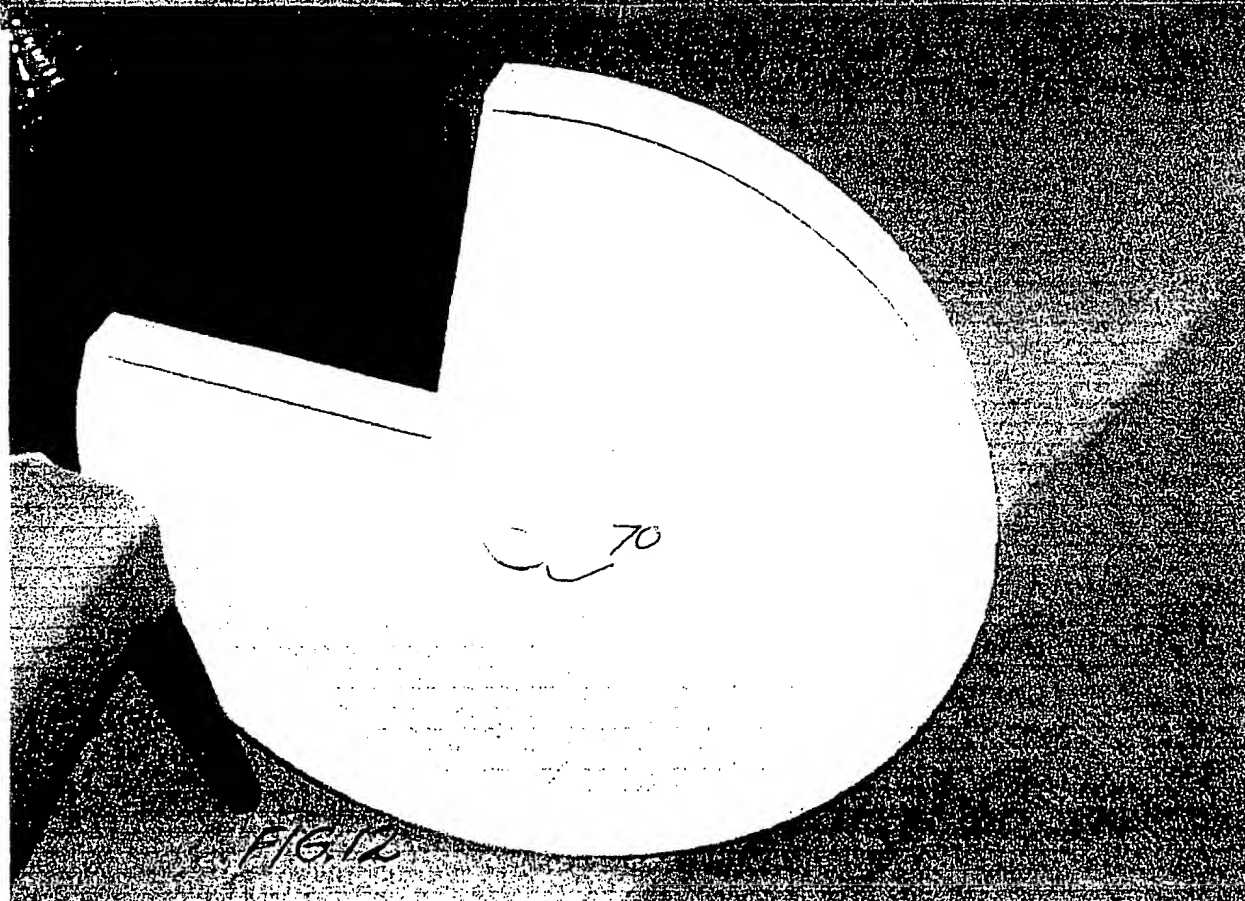
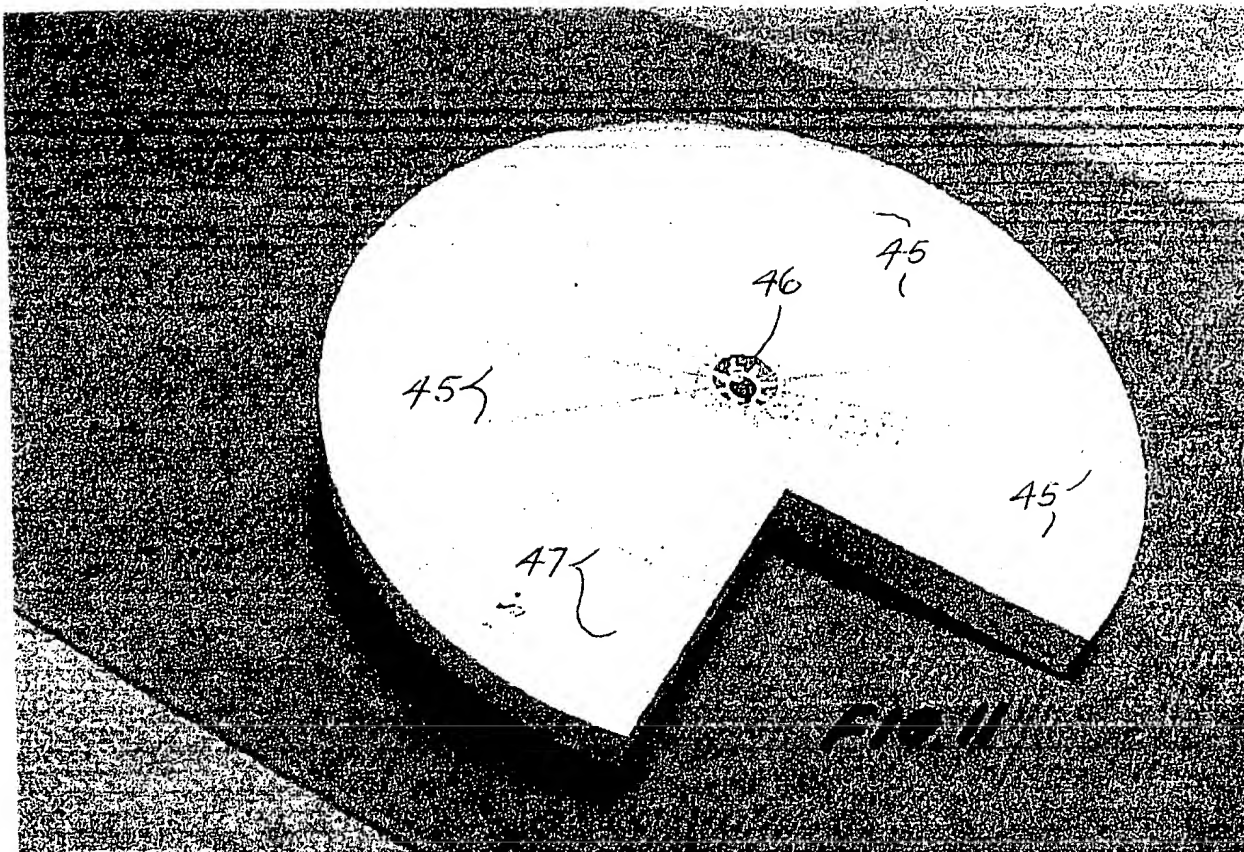
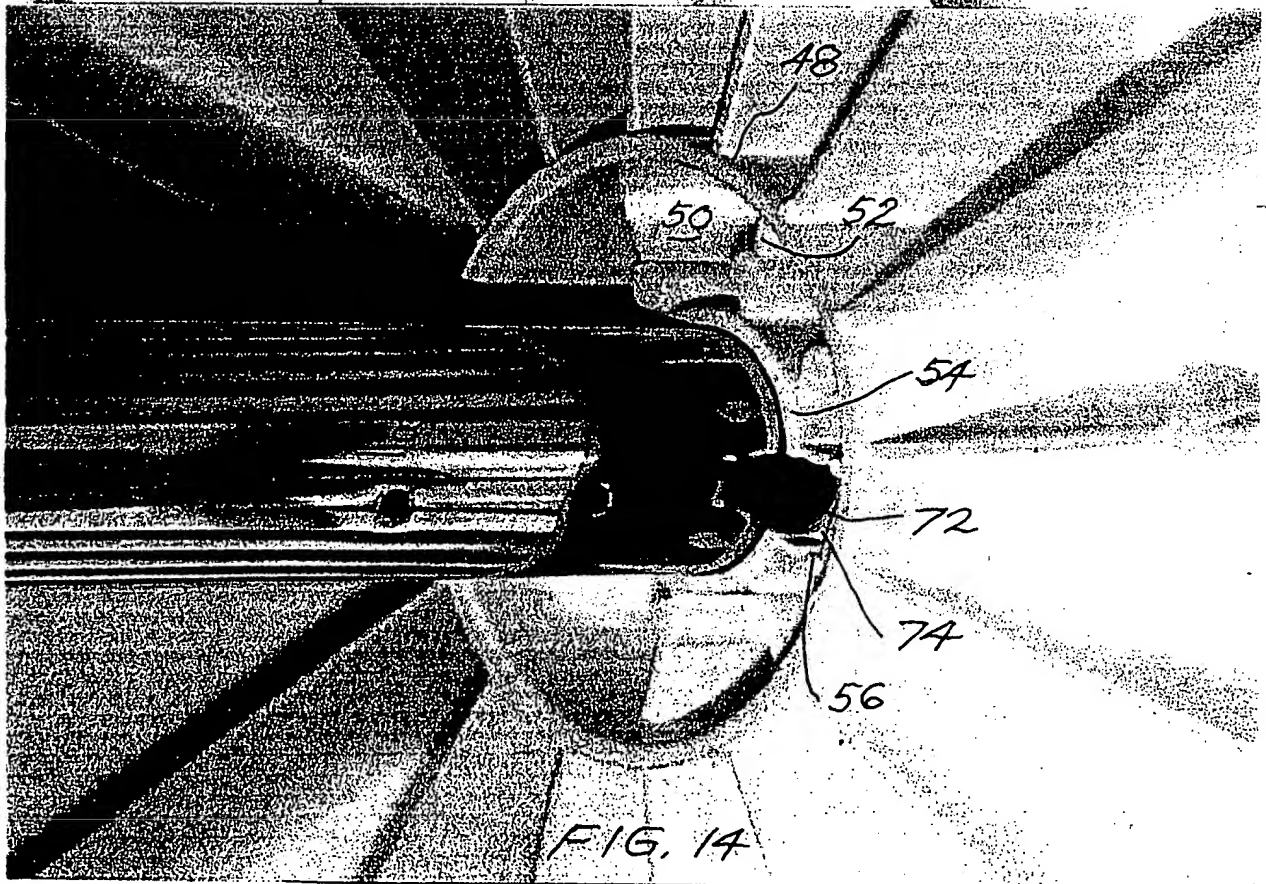
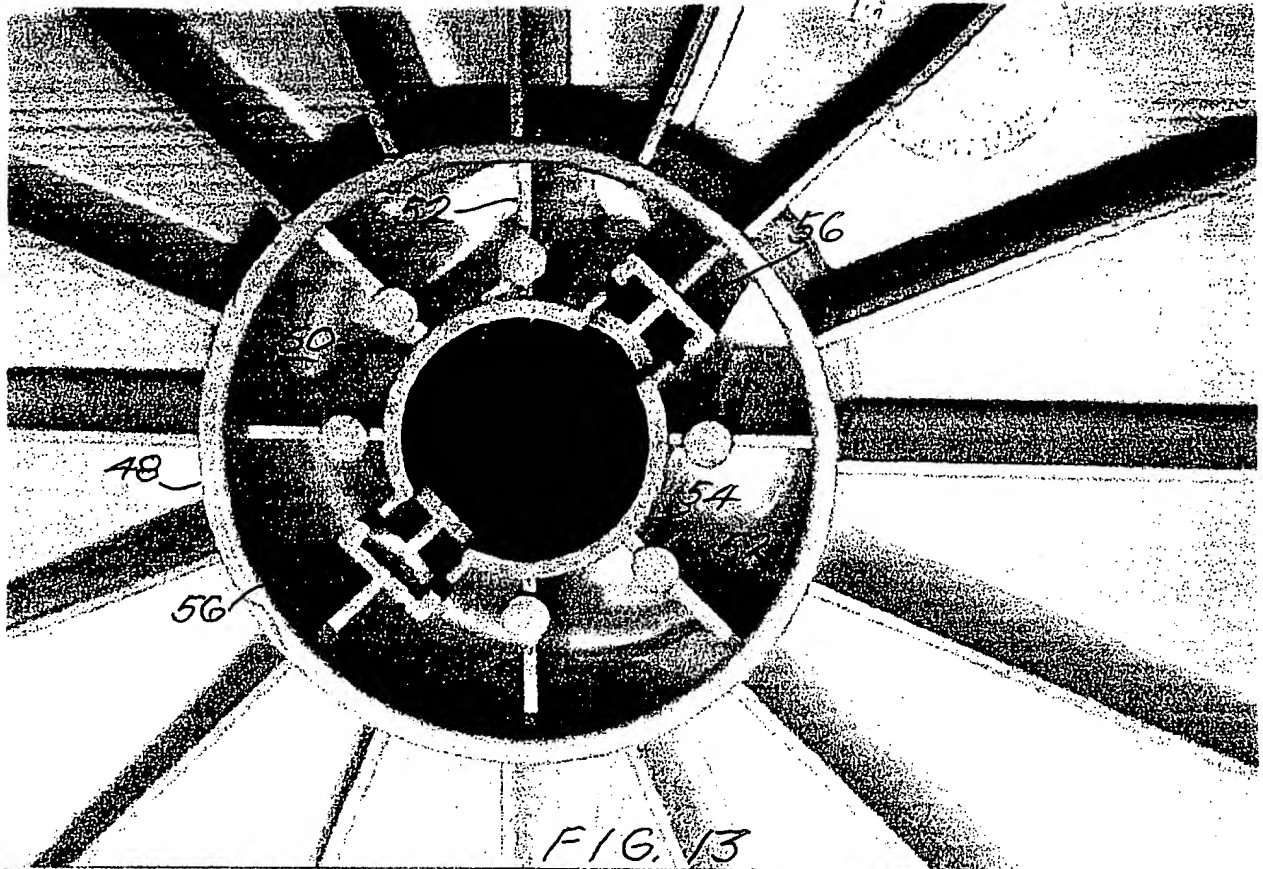


FIG. 10





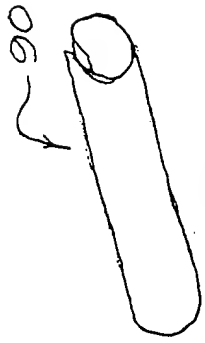


FIG. 17

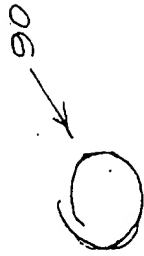


FIG. 18

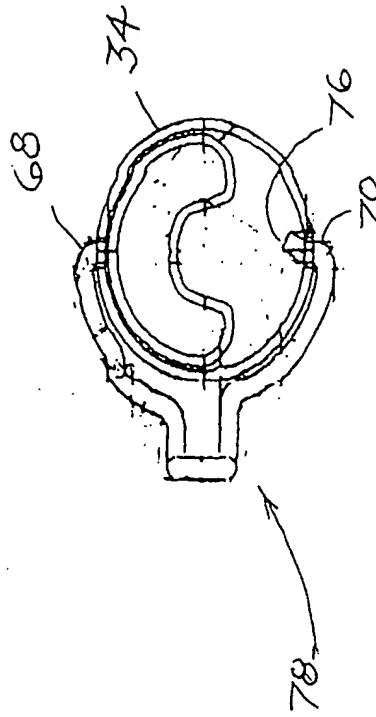


FIG. 15

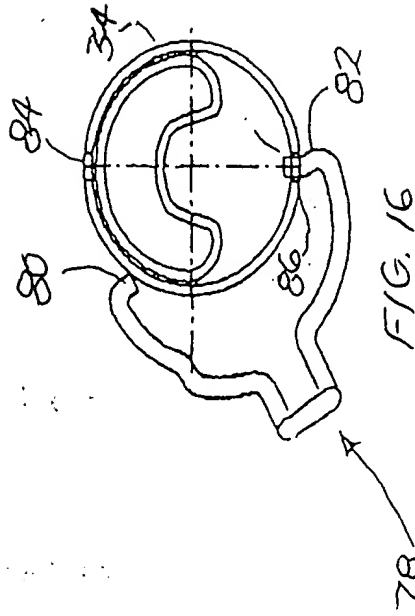


FIG. 16



ABSTRACT OF THE DISCLOSURE

A rotary shelf assembly having shelves mounted on a vertical post is connected to the cabinet frame by upper and lower mounting brackets interacting with the top and bottom of the cabinet frame to support the post. The assembly is adapted to be mounted in the corner of a cabinet frame. To adjust to the vertical position of the cabinet frame, a height adjustment device is telescopically received in the upper end of the vertical post and is slidably movable therein. When securement of the post and mounted shelves is desired, the slidably telescoping upper and shorter post is extended upwardly until it engages the upper mounting bracket. An elongated recess in the shorter post aligns with an opening in the lower post to receive a threaded member into a casting. The screw is tightened to engage the casting and secure the two posts together in a shelf maintaining and rotational mode. The height adjustment device enables the assembly to be quickly and efficiently mounted within the cabinet frame. A new shelf construction and shelf retaining element for securing each shelf to the post is also included as a part of this improvement.



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MEANS AND SHELF RETAINING ELEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

**VERIFIED STATEMENT IN SUPPORT OF
PETITION TO MAKE SPECIAL UNDER M.P.E.P. § 708.02**

In accordance with M.P.E.P. § 708.02, Applicants' and Assignee's Attorney, Charles Y. Lackey, respectfully submits the following statement in support of Applicant's and Assignee's accompanying Petition to Make Special.

1. Comparison of infringing product with the claims of the above referenced application

Claim 1 of the above-referenced application recite usual rotary shelf assembly components except that it claims a post height adjustment assembly. The Knappe and Voit Feeny unit includes a post height adjustment assembly which is shown in the Installation Instructions, a copy of which is attached hereto and labeled Exhibit A.

Claim 2 includes the structure of claim 1 and also describes a casting position within the first tubular post having a recess fitting portion and a threaded recess extending into the elongated recess of the second tubular post. Exhibit A shows the Knappe and Voit Feeny unit having exactly the same structure.

Claim 4 of the above-referenced application includes the commonly found rotary shelf assembly components but also includes a one piece shelf and an integral post-securing section including a hub and pin receiving indents within the hub. Pin means extends through the post pin receiving apertures and is cooperatively received by the indents within the hub to secure the shelf to the post. The Knappe and Voit unit contains identical structure which is illustrated in Exhibit A.

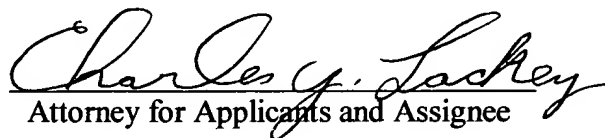
Claim 6 claims in more detail the post height adjustment assembly with the two tubular members being joined telescopically and secured by cooperating screw and aperture at the desired location. The Knappe and Voit unit uses a very similar structure which is illustrated in Exhibit A.

Claim 11 of the above-referenced application recites that each of the one piece shelves is formed with a hub having a post receiving opening and a rectangularly shaped recess communicating with the opening, the post having a diametric aperture extending through the post at each shelf position and the shelf and post securing means for each shelf as pin cooperatively received by the shelf of rectangularly shaped recess and the post diametric aperture to secure the shelf to the post. The Knap and Voit unit has this identical structure which is illustrated in Exhibit A.

2. Prior art search

The above-referenced patent application is a continuation-in-part application based on Patent Application Serial No. 09/640,052 filed August 17, 2000. A prior art search was conducted by a professional searcher for the post adjustment device shown and claimed in the parent patent application. Additional references regarding the parent application were cited by Examiners in Office Actions on related cases over the past 14 months. All references are listed in the Information Disclosure Statement for the above-referenced patent application. For convenience, the Information Disclosure Statement and copies of all the cited references are attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.


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PETITION TO MAKE SPECIAL UNDER M.P.E.P. § 708.02**

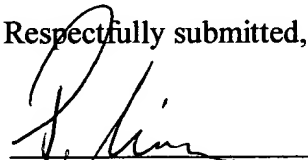
In accordance with M.P.E.P. § 708.02, Assignee respectfully submits the following statement in support of ApplicantS' and Assignee's accompanying Petition to Make Special.

Assignee recently attended a trade show in which companies are allowed to set up booths for the purpose of introducing and selling products to distributors and builders. While attending this trade show, Assignee saw a rotary shelf mechanism substantially similar in construction and design to the above referenced rotary shelf mechanism. Assignee determined that the infringing assembly was a product sold by Knappe and Voit under the name Feeny. Assignee also obtained a sales brochure that clearly advertises the infringing assembly. A copy of the sales brochure has been attached hereto as Exhibit A. Assignee subsequently purchased a Knappe and Voit unit, and a copy of the installation instructions is attached hereto as Exhibit B.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Date: 9 - 28 - 2001

Respectfully submitted,



Peter Meier, President
Peter Meier, Inc., Assignee



1. A rotary shelf assembly mechanism comprising: first and second mounting brackets placed apart and opposing each other; a first tubular post having first and second ends disposed lengthwise between the first and second mounting brackets supporting one or more shelves; a first bearing element mounted on the post adjacent to the first end of the post and capable of engaging the first mounting bracket for rotation about the axis of the post; and a post height adjustment assembly including a second tubular post having first and second ends and sized to be telescopically received within the second end of the first tubular post and having an elongated recess extending longitudinally parallel to the axis of the second tubular post, the first tubular post having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post in a pre-selected location and thereby join the posts to span the distance between the first and second mounting brackets to insure connected post rotation.

2. The adjustment means as claimed in claim 1 further comprising: a casting positioned within the first tubular post having a recess fitting portion and a threaded recess extending into the elongated recess of the second tubular post; a threaded member extending through the aperture and being fixedly engagable with the elongated recess to fixedly secure the second tubular post to the first tubular post.

3. The adjustment means as claimed in claim 2 wherein the casting has bradable extensions suitable to fit within apertures of the first tubular post to secure the casting to the first tubular post and further secure the first tubular post to the second tubular post.

4. A rotary shelf assembly comprising: first and second mounting brackets spaced apart and opposing each other; tubular post means disposed lengthwise between the first and second mounting brackets supporting one or more one piece shelves and having pin-receiving apertures at the location of each supported shelf, each of the one or more supported one piece shelves having an integral post-securing section including a hub and pin-receiving indents within the hub; post length adjusting means; and pin means extending through the post pin-receiving apertures and cooperatively received by the indents within the hub to secure the shelf to the post means.

5. The mechanism as claimed in claim 4 wherein the pin means is a cylindrically formed segment of flat stock.

6. The mechanism as claimed in claim 4 wherein the post means is disposed between first and second mounting brackets and includes a first tubular member having first and second ends and a second tubular member having first and second ends, sized to be telescopically received within the second end of the first tubular post and having an elongated recess extending longitudinally parallel to the axis of the second tubular post, the first tubular post having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post in a pre-selected location and thereby join the posts to span the distance between the first and second mounting brackets to insure connected post rotation.

7. The mechanism as claimed in claim 6 wherein the pin means is a cylindrically formed segment of flat stock.

8. The mechanism as claimed in claim 4 wherein the post length adjusting means includes the first and second tubular posts, the first tubular post having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post in a pre-selected location and thereby join the posts to span the distance between the first and second mounting brackets to insure connected post rotation.

9. The mechanism as claimed in claim 5 wherein the post length adjusting means includes the first and second tubular posts, the first tubular post having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post in a pre-selected location and thereby join the posts to span the distance between the first and second mounting brackets to insure connected post rotation.

10. The mechanism as claimed in claim 6 wherein the post length adjusting means includes the first and second tubular posts, the first tubular post having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post in a pre-selected location and thereby join the posts to span the distance between the first and second mounting brackets to insure connected post rotation.

11. The rotary shelf assembly as claimed in claim 4 wherein each of the one piece shelves is formed with a hub having a post-receiving opening and a rectangularly shaped recess communicating with the opening, the post having a

diametric aperture extending through the post at each shelf position, and the shelf and post securing means for each shelf is a pin cooperatively received by the shelf hub rectangularly shaped recess and the post diametric aperture to secure the shelf to the post.

12. The assembly as claimed in claim 11 wherein the pin means is a cylindrically formed segment of flat stock.

13. The assembly as claimed in claim 12 wherein the post means is disposed between first and second mounting brackets and include the first tubular member having first and second ends and a second tubular member having first and second ends, sized to be telescopically received within the second end of the first tubular post and having an elongated recess extending longitudinally parallel to the axis of the second tubular post, the first tubular having an aperture, a mating screw extendable through the aperture of the first tubular post and into the elongated recess to secure the second tubular post with the first tubular post and span the distance between the first and second mounting brackets to ensure connected post rotation.